

PTO/SB/01 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**Declaration  
Submitted  
with Initial  
Filing

OR

Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

TRADEMARK

Attorney Docket Number

90099008

First Named Inventor

Ayres et al.

**COMPLETE IF KNOWN**

Application Number

/ To Be Assigned

Filing Date

Art Unit

To Be Assigned

Examiner Name

To Be Assigned

COPY OF PAPERS  
ORIGINALLY FILED**As the below named inventor, I hereby declare that:**

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HEAT EXCHANGER WITH CORE AND SUPPORT STRUCTURE COUPLING  
FOR REDUCED THERMAL STRESS

(Title of the Invention)

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

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Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐ Customer Number or Bar Code Label  OR ☒ Correspondence address below

Name Ephraim Starr, General Counsel - Honeywell International Inc.

Address 23326 Hawthorne Boulevard, Suite #200

City Torrance

State CA

ZIP 90505

Country USA

Telephone 310.791.9120

Fax 310.791.9125

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR : ☐ A petition has been filed for this unsigned inventor

Given Name  
(first and middle [if any]) Steven M.

Family Name  
or Surname Ayres

Inventor's  
Signature

*Steven M. Ayres*

Date

3/13/02

Residence: City Redondo Beach

State CA

Country USA

Citizenship USA

Mailing Address 2508 B Huntington Lane

City Redondo Beach

State CA

ZIP 90278

Country USA

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name  
(first and middle [if any]) David Wilson

Family Name  
or Surname Beddome

Inventor's  
Signature

*David W. Beddome*

Date

3/1/02

Residence: City San Pedro

State CA

Country USA

Citizenship USA

Mailing Address 225 North Malgreen Avenue

City San Pedro

State CA

ZIP 90732

Country USA

☒ Additional inventors are being named on the \_\_\_\_ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.



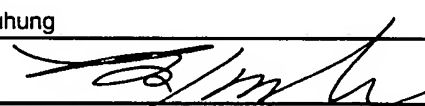
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**DECLARATION****ADDITIONAL INVENTOR(S)**  
**Supplemental Sheet**  
Page 1 of 1

<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
<b>Given Name</b> Edward Yuhung		<b>Family Name or Surname</b> Yeh	
<b>Inventor's Signature</b> 		<b>Date</b> 03/13/2002	
<b>Residence: City</b> Rancho Palos Verdes	<b>State</b> CA	<b>Country</b> USA	<b>Citizenship</b> USA
<b>Mailing Address</b> 6338 Villa Rosa Drive			
<b>Mailing Address</b>			
<b>City</b> Rancho Palos Verdes	<b>State</b> CA	<b>ZIP</b> 90275	<b>Country</b> USA
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
<b>Given Name</b>		<b>Family Name or Surname</b>	
<b>Inventor's Signature</b>		<b>Date</b>	
<b>Residence: City</b>	<b>State</b>	<b>Country</b>	<b>Citizenship</b>
<b>Mailing Address</b>			
<b>Mailing Address</b>			
<b>City</b>	<b>State</b>	<b>ZIP</b>	<b>Country</b>
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
<b>Given Name</b>		<b>Family Name or Surname</b>	
<b>Inventor's Signature</b>		<b>Date</b>	
<b>Residence: City</b>	<b>State</b>	<b>Country</b>	<b>Citizenship</b>
<b>Mailing Address</b>			
<b>Mailing Address</b>			
<b>City</b>	<b>State</b>	<b>ZIP</b>	<b>Country</b>

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## ASSIGNMENT

Assignment before issue of Letters Patent

Honeywell File No: 90099008

**WHEREAS, Steven M. Ayres, resident of Redondo Beach, California; David W. Beddome, resident of San Pedro, California; and, Edward Yuhung Yeh, resident of Rancho Palos Verdes, California,**

(hereinafter "Assignors") have invented certain new and useful improvements in

### **HEAT EXCHANGER WITH CORE AND SUPPORT STRUCTURE COUPLING FOR REDUCED THERMAL STRESS**

(hereinafter "invention") for which Assignors are making or have made application for **LETTERS PATENT OF THE UNITED STATES**, which application has been duly executed by Assignors on even date herewith;

**AND WHEREAS, Honeywell International Inc.,** a corporation organized and existing under the laws of the State of Delaware, U.S.A., having a place of business at Columbia Road and Park Avenue, Morris Township, Morris County, New Jersey, U.S.A., hereinafter called the Assignee, is desirous of acquiring the entire right, title and interest in and to said invention within the United States of America and its territorial possessions and all foreign countries and any United States or foreign **LETTERS PATENT** that may be granted therefor.

**NOW, THIS INDENTURE WITNESSETH,** that for good and valuable considerations, the receipt whereof is hereby acknowledged, Assignors have assigned, sold and transferred, and do hereby assign, sell and transfer to the said Assignee the entire right, title and interest in and to the said invention, within the United States of America and its territorial possessions and all foreign countries and in and to any **LETTERS PATENT** of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, and the right to apply for **LETTERS PATENT** in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignors by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of said **U.S. LETTERS PATENT** to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors or assigns, to the full end of the term for which said **LETTERS PATENT** may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made. And Assignors do hereby request and authorize the Commissioner of Patents and Trademarks, U.S.A., to issue said **U.S. LETTERS PATENT**, when granted, in accordance with this assignment.

Assignors further covenant and agree with the Assignee that Assignors have a full and unencumbered title to the invention hereby assigned, which title Assignors warrant unto the Assignee, and Assignors further agree that Assignors will, without demanding any further consideration therefor, at the request but at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign **LETTERS PATENT** or the like for the said invention, and for maintaining and perfecting the Assignee's right to said invention, and for maintaining and perfecting the Assignee's right to said invention and **LETTERS PATENT** particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day of March, 2002

Steven M. Ayres

Name: STEVEN M. AYRES

STATE OF California )

) ss.:

COUNTY OF Los Angeles )

On this 13<sup>th</sup> day of March, 2002 before me personally appeared

☒ to me known ☐ proved to me on the basis of satisfactory evidence and known to me to be the individual described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same.

[SEAL]



Kathryn A. Costantino

Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 1st day of March, 2002

David W. Beddome  
Name: DAVID W. BEDDOME

STATE OF California )  
COUNTY OF Los Angeles ) ss.:

On this 1<sup>st</sup> day of March, 2002 before me personally appeared

☒ to me known ☐ proved to me on the basis of satisfactory evidence and known to me to be the individual described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same.

[SEAL]



Kathryn A. Costantino

Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day of MARCH, 2002

  
Name: EDWARD YUHUNG YEH

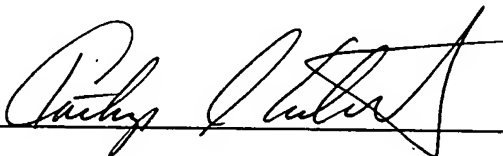
STATE OF California )  
COUNTY OF Los Angeles ) ss.:

On this 13<sup>th</sup> day of March, 2002 before me personally appeared

☒ to me known ☐ proved to me on the basis of satisfactory evidence and known to me to be the individual described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same.

[SEAL]





Notary Public

**ASSIGNMENT**

**Ayres et al.**

**TO  
HONEYWELL INTERNATIONAL  
INC.**

**INVENTION:  
HEAT EXCHANGER WITH CORE  
AND SUPPORT STRUCTURE  
COUPLING FOR REDUCED  
THERMAL STRESS**

**HONEYWELL INTERNATIONAL  
FILE NO:  
90099008**

**Honeywell International Inc.  
Ephraim Starr  
23326 Hawthorne Blvd. Suite 200  
Torrance, CA 90505**